

Title (en)
AUTOMATED SPECIMEN TESTING SYSTEM

Title (de)
AUTOMATISIERTES PROBENTESTSYSTEM

Title (fr)
SYSTÈME AUTOMATISÉ DE TEST D'ÉCHANTILLONS

Publication
EP 2485058 A1 20120808 (EN)

Application
EP 10820317 A 20100908

Priority
• JP 2009225927 A 20090930
• JP 2010065435 W 20100908

Abstract (en)
When a sample rack loops in a system and is used many times in order to avoid an increase in the size system and complicating the system, a processing speed is reduced due to an intersection of transport lines. In order to avoid the intersection, a complicated mechanism such as an elevator mechanism or a robot hand mechanism is required. An empty rack transport line is arranged at a lower stage and independent of a main transport line, a fast emergency line and a reverse line. In a rack stocker, an inclined transport line connects the empty rack transport line to the rack stocker. The rack stocker is arranged between a storage module and a loading module. The rack stocker is capable of continuously supplying and collecting empty racks, while transport lines do not cross each other. It is, therefore, possible to continuously supply and collect empty racks in a simple configuration, without an increase in the size system, an intersection of transport lines and a reduction in processing capability. In addition, it is possible to provide an automated sample testing system that is highly extendable for a facility size.

IPC 8 full level
G01N 35/04 (2006.01)

CPC (source: EP US)
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Cited by
EP2887071A1; EP2889236A1; EP2902790A4; US10161949B2; US10502751B2; EP3739339A4; EP3153438A1; US9957111B2; US9684007B2; US9696330B2; US9851369B2; US10302667B2

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